ORDER NO. MD0512449C1

A6

Service Manual

Speaker System

SB-WAK640P

Colour

(S)... Silver Type

SPECIFICATIONS

Specification

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Type	**1 way, 1 speaker system (Bass reflex)**
Speaker(s)	
Subwoofer	**16 cm (6-1/2”) cone type**
Impedance	**8 Ω**
Input power (IEC)	**180 W (Max)**
Output sound pressure level	**80 dB/W (1.0 m)**
Frequency range	**40 Hz to 220 Hz (-16 dB)**
	45 Hz to 180 Hz (-10 dB)
Dimensions (W x H x D)	**248 x 330 x 256 mm**
	(9-3/4” x 13” x 10-3/32”)
Mass	**3.6 kg (7.9 lb.)**

Notes :

1. Specifications are subject to change without notice.
Mass and dimensions are approximate.

2. Total harmonic distortion is measured by the digital spectrum analyzer.

3. The labels “HIGH” and “LOW” on the rear of the speakers refer to High frequency and Low frequency.

■ System : SC-AK640P-S	**Music Center : SA-AK640P-S**
	Front Speaker : SB-AK640P-S
	Subwoofer : SB-WAK640P-S
■ System : SC-AK640PC-S	**Music Center : SA-AK640PC-S**
	Front Speaker : SB-AK640P-S
	Subwoofer : SB-WAK640P-S

System	SC-AK640P/PC-S
Music Centre System	SA-AK640P/PC-S
Front Speaker	SB-AK640P-S
Subwoofer	SB-WAK640P-S

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. Assembling and Disassembling

“ATTENTION SERVICER”
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

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1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For reassembly after operation checks or replacement, reverse the respective procedures.**
   Special reassembly procedures are described only when required.
3. **Select items from the following index when checks or replacement are required.**
4. **Refer to the Parts No. on the page of "Parts Location and Replacement Parts List" (Section 5), if necessary.**

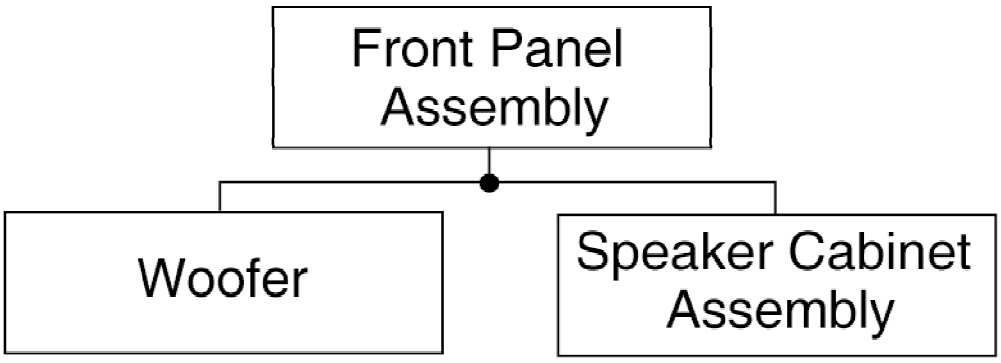
Caution:
Original screws should be used.

Below is the list of disassembly sections

- **Disassembly of Front Panel Assembly**
- **Disassembly of Woofer**
- **Disassembly of Speaker Cabinet Assembly**

1.1. Disassembly flow chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.
To assemble the unit, reverse the steps shown in the chart as below.



1.2. Disassembly of Front Panel Assembly

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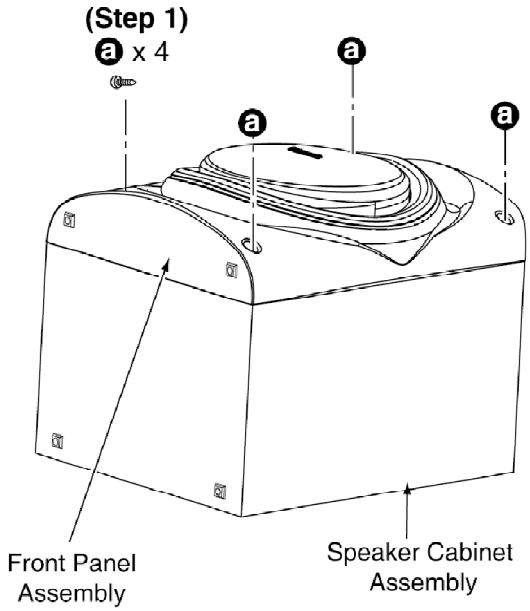
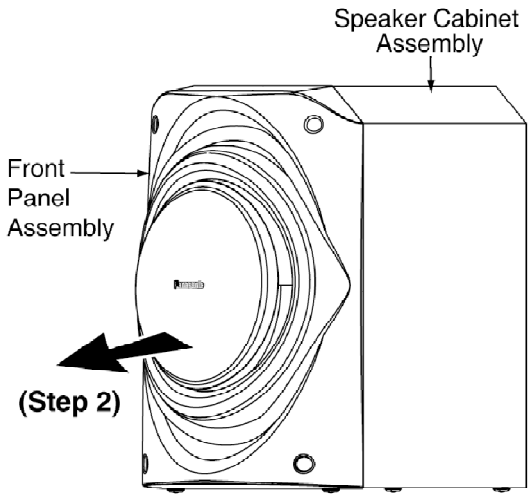


Step 1: Remove 4 screws from Front Panel Assembly.



Step 2: Remove Front Panel Assembly from Speaker Cabinet Assembly as arrow shown.

1.3. Disassembly of Woofer

Follow (step 1) to (step 2) in item 1.2.

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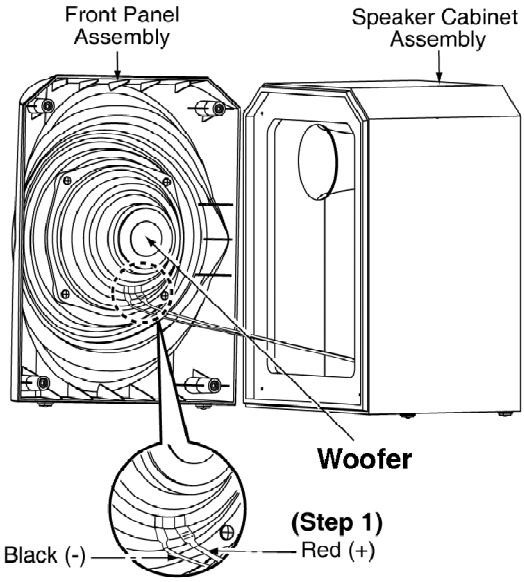
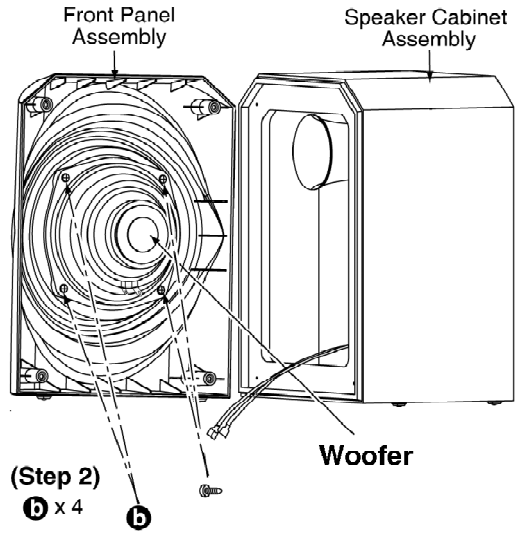


Step 1: Detach the (+) Red and (-) Black wires from Woofer.



Step 2: Remove 4 screws from Woofer.

1.4. Disassembly of Speaker Cabinet Assembly

Follow (step 1) to (step 2) in item 1.2.
Follow (step 1) in item 1.3.

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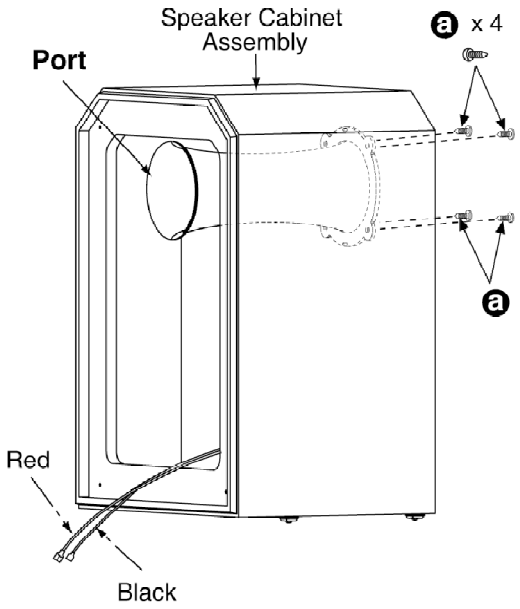

2. Connection of the Speaker Cables

- Be sure to connect speaker cables before connecting the AC power supply cord.

- The load impedance of any speaker used with this unit must be 8 Ω .

- Be sure to connect the cable from the right speaker to the right terminal and the cable from the left speaker to the left terminal.

1. Twist and pull off the vinyl tip of the speaker cords. If the speaker cords do not have vinyl tips, connect them directly to the terminals. Make sure the bare ends of the wires are not unravelled.

2. Insert the wire to the rear panel of the unit and close the lever.

Notes :

- To prevent damage to circuitry, never short-circuit positive (+) and negative (-) speaker wires.

- Be sure to connect only positive (red) wires to positive (+) terminals and negative (black) wires to negative (-) terminals.

Placement

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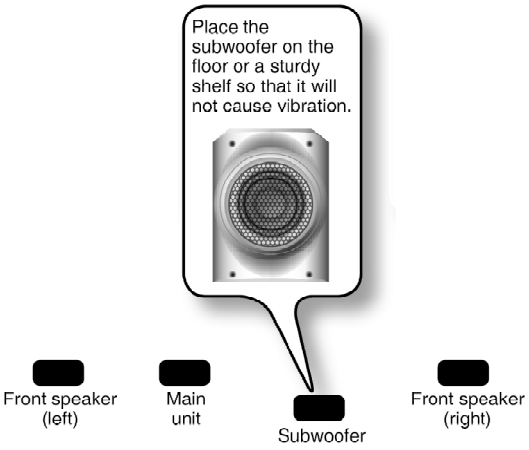
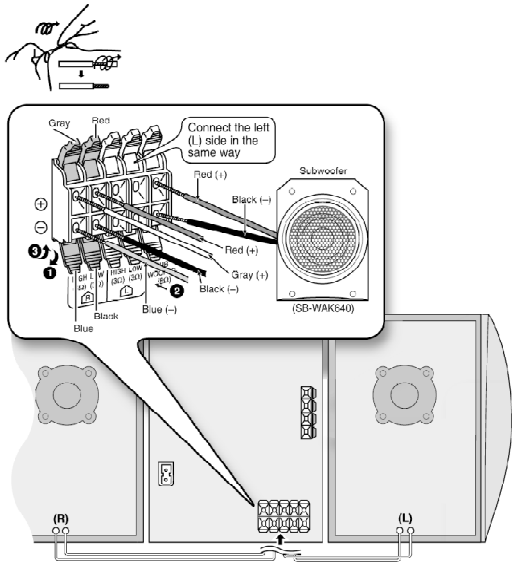

Place the subwoofer on the floor or a sturdy shelf so that it will not cause vibration.
Front speaker (left)
Main unit
Subwoofer
Front speaker (right)

Connection



Use only the supplied speakers

The combination of the main unit and speakers provide the best sound. Using other speakers can damage the unit and sound quality will be negatively affected.

Note

- **Keep your speakers at least 10 mm (13/32”) away from the system for proper ventilation.**
- **These speakers do not have magnetic shielding. Do not place them near televisions, personal computers or other devices easily influenced by magnetism.**
- **You can damage your speakers and shorten their useful life if you play sound at high levels over extended periods.**
- **Reduce the volume in the following cases to avoid damage.**
- **When playing distorted sound.**
- **When adjusting the sound quality.**

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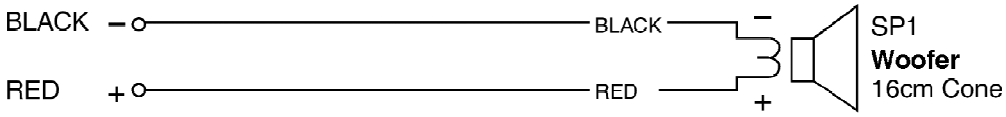
Caution

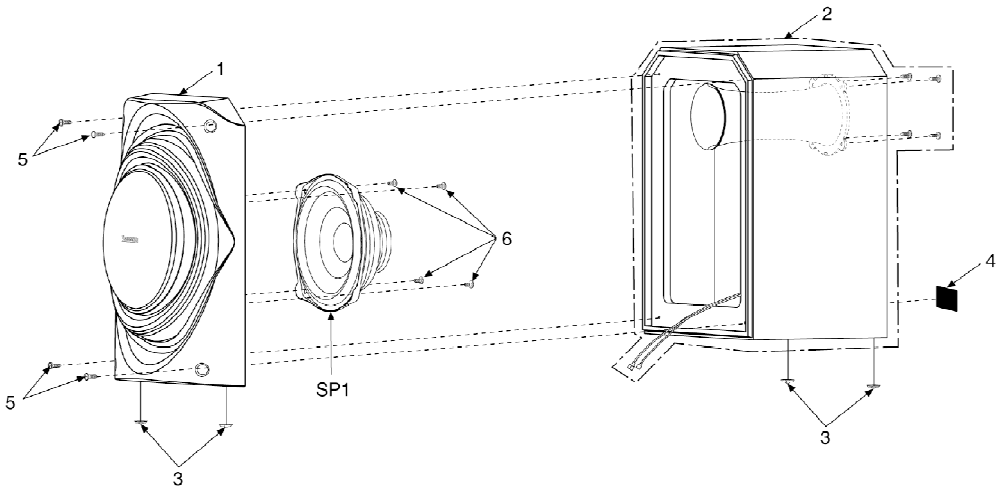
- Use the speakers only with the recommended system. Failure to do so may lead to damage to the amplifier and/or the speakers, and may result in the risk of fire. Consult a qualified service person if damage has occurred or if you experience a sudden change in performance.
- Do not attach these speakers to walls or ceilings.

3. Connection of the Wiring Diagram



4. Exploded view

4.1. Cabinet Parts Location



4.2. Packaging

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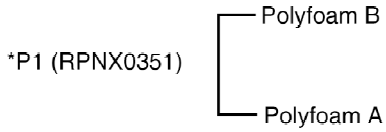

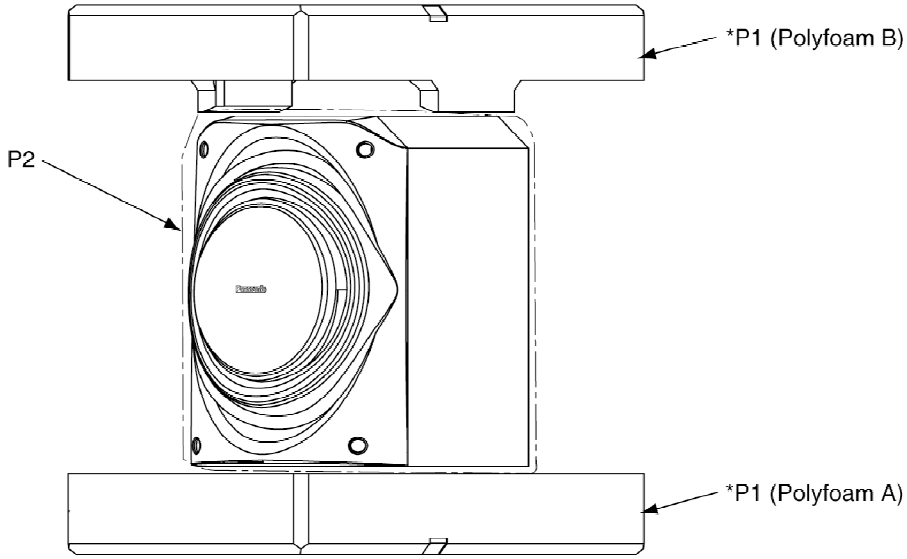

5. Replacement Parts List

Notes :

- Important safety notice :

When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.

- [M] markings in the Remarks columns indicates parts supplied by PAVCSG.

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Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RYBX0127-S	FRONT PANEL ASS'Y	[M]
2	RYKX0313-S	SPEAKER CAB. ASS'Y	[M]
3	RKA0072-KJ	LEG CUSHION	[M]
4	RGNX0317-K	SPEC SHEET	[M]
5	XTB4+16AFJK	SCREW	[M]
6	XTB4+10GFJ	SCREW	[M]
		PACKING MATERIALS	
P1	RPNX0351	POLYFOAM SET	[M]
P2	RPFX0183	MIRAMAT	[M]
		SPEAKER	
SP1	L0AA16A00029	WOOFER	[M]

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